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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY.

U. S. DEPARTMENT OF AGRICULTURE.

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Number 21.

January, 1916.

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The issue of Science for December 17 contained an important announcement regarding the recent work of Dr. W. V. King. In experiments conducted in one of the laboratories of the Medical Department of Tulane University Dr. King determined that *Anopheles punctipennis* is an efficient carrier of the tertian form of malaria. The importance of this discovery lies in the fact that *A. punctipennis* is a very widely distributed species in the United States and had not previously been determined definitely to be an efficient carrier of any form of malaria. The discovery, therefore, has a very important bearing on antimalarial work in this country. A full report on the experiments will appear in the February issue of the American Journal of Tropical Medicine and Hygiene.

Among the publications issued since December 1, 1915, are the following:

The Acarina or mites, by Nathan Banks, Report No. 108, Office of the Secretary. [Owing to the small edition (1,000 copies) this is now exhausted.]

The bagworm, an injurious shade-tree insect, L. O. Howard and F. H. Chittenden. Farmers' Bulletin No. 701.

Studies on the biology of the Arizona wild cotton weevil, B. R. Coad. Dept. Bull. No. 344.

Effect of cold storage temperatures upon the Mediterranean fruit fly, C. E. Pemberton & E. A. Back. Jr. Agr. Research.

Banana as a host fruit of the Mediterranean fruit fly, C. E. Pemberton & E. A. Back. Jr. Agr. Research.

Biology of *Apanteles militaris* Walsh, D. G. Tower. Jr. Agr. Research.

Spread of the Mexican cotton boll weevil in 1915, W. D. Hunter & W. D. Pierce. (One-page circular, with dispersion map on reverse side.)

Notes on the preoviposition period of the house fly, *Musca domestica* L., by R. H. Hutchison. Dept. Bull. No. 345.

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NEW BOOKS.

- Blanchard, R. La lutte contre la mouche. Paris, Aug. 25, 1915. 58p. (Ligue sanitaire française. Bul. 5)
- Donisthorpe, H. St. J. K. British ants. Plymouth, 1915. 379p.
- Herms, W. B. Medical and veterinary entomology. New York, 1915. 393p.
- International commission on zoological nomenclature. The international rules of zoological nomenclature, with appendix and summaries of opinions no. 1 to no. 56. Extracted from the Proceedings of the ninth International zoological congress, Monaco, 1913. Washington, 1915. 28 numb. leaves. (Mimeographed edition)
- Kraemer, Henry, Scientific and applied pharmacognosy. Philadelphia, 1915. 857p.
- McFarland, Joseph, A text-book upon the pathogenic Bacteria and Protozoa for students of medicine and physicians ... 8th ed. rev. Philadelphia and London, 1915. 807p
- Neiva, Arthur, Revisao do genero Triatoma Lap. Trabalho original especialmente elaborado e apresentado junto a outros titulos e publicacoes ... Rio de Janeiro, 1914. 80p. 23cm.
- Vaud (canton) Switz.- Department de l'agriculture, industrie et du commerce. Phylloxera. Rapport de la Station viticole et du Service phylloxerique sur les travaux durant l'annee 1914. Lausanne, 1915.
- West Virginia State crop pest commission. First biennial report March 1, 1913.- June 30, 1914. Morgantown, West Va., 1914. 132p.

BEE CULTURE.
E. F. Phillips, In Charge.

Mr. Geo. S. Demuth attended the annual meeting of the Kentucky Beekeepers' Association at Lexington, January 5th.

Mr. E. G. Carr spent the month in Washington making out reports on his work in North Carolina. He returns to his work in New Jersey, where he is State Apiary Inspector, on January 31st.

The National Beekeepers' Association convention will be held in Chicago, February 22-24.

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CEREAL AND FORAGE INSECT INVESTIGATIONS.

Messrs. A. H. Beyer who recently visited the Bureau of Entomology has returned to his Field Station at Columbia, South Carolina.

Mr. C. M. Packard, formerly attached to the staff at the Wellington, Kansas, Field Laboratory, has been transferred and detailed to assist Mr. T. D. Urbahns at the Pasadena, California, Field Laboratory.

Mr. E. L. Barrett has been transferred from the Pasadena, California, laboratory to assist Mr. E. G. Kelly at the Wellington, Kansas, Field Laboratory.

Mr. E. H. Gibson of the Charleston, Missouri, Field Laboratory, will shortly visit Washington for the purpose of consultation and study of collections at the U. S. National Museum.

The Nashville, Tennessee, Field Laboratory, will be moved to Knoxville, Tennessee, about March 1, 1916. The present staff at Nashville will be transferred to the Knoxville Station.

Mr. L. P. Rockwood whose address was originally Room 416, Vermont Building, Salt Lake City, Utah, has removed to Forest Grove, Oregon.

FOREST INSECT INVESTIGATIONS.

A. D. Hopkins, In Charge.

Mr. A. B. Champlain, stationed at Lyme, Connecticut, left Washington on January 24 after several days of consultation and study of literature and collections. On his return trip he will stop at Huntington, L. I., and assist Mr. Griffith in the study of the insects in connection with the demonstration control against the hickory barkbeetle and two-lined chestnut borer.

Reports on the investigation, instruction and demonstration control work carried on during the past season, in connection with a study of present infestation by Dendroctonus beetles in the Yosemite National Park in cooperation with the Interior Department, show that the control work carried on by the Interior Department during the past three years, under recommendations of the Forest Entomologist, has resulted in bringing the infestation of the entire park under sufficient control as to require but little attention during the coming season.

SOUTHERN FIELD CROP INSECT INVESTIGATIONS.

W. D. Hunter, In Charge.

The following agents were in Washington for conference during the month.

F. C. Bishopp, A. C. Morgan, E. A. McGregor, B. R. Coad, G. L. Garrison, T. F. McGehee.

S. E. Crumb has returned to his field station at Clarksville, Tennessee.

The furlough of A. H. Jennings has been extended through the month of February. Mr. Jennings's condition is improving and he may be able to report for duty before the end of the month.

E. A. McGregor has submitted a manuscript for farmers' Bulletin dealing with the control of the red spider on cotton.

The January issue of the Service and Regulatory Announcement of the Bureau of Animal Industry will contain an illustrated article by F. C. Bishopp on the types of cages for capturing house flies that have been found especially adapted in meat-packing establishments. This grows out of the cooperative project with the Inspection Division of the Bureau of Animal Industry which was begun on July 1.

J. U. Gilmore has recovered from his recent illness as has J. D. Smith.

W. D. Pierce returned to duty on January 24.

W. D. Hunter, in company with G. B. Sudworth, of the Federal Horticultural Board, visited Boston during the month in connection with the preparations for the fumigation of all foreign cottons arriving in the United States which will be instituted on February 1.

TRUCK CROP AND STORED PRODUCT INSECT INVESTIGATIONS.

F. H. Chittenden, In Charge.

Mr. E. G. Smyth, formerly an entomological assistant in this branch and now collaborator, recently visited Washington for consultation in regard to cooperative work in Porto Rico on insects which occur on that Island as well as in the Gulf region. Mr. Smyth has returned to the office of the Commissioner of Agriculture at Rio Piedras, Porto Rico.

Mr. C. H. Popenoe, entomological assistant, who has been visiting his home at Topeka, Kansas, since December, has returned to Washington. While in Kansas, he visited the Truck Crop and Stored Product Insect Investigation Station at Wichita, and conferred regarding projects for the coming season with Mr. F. B. Milliken, who is in charge of that station. He also visited the Kansas State Agricultural College for conference with Prof. G. A. Dean of the Department of Entomology and with his assistants.

Mr. D. E. Fink has been at the Department of Agriculture since the first of January making a special study of cucurbitaceous insects and their role as transmitters of the virus of wilts and mosaic diseases. He has also conducted similar study on the springtails, the spinach aphids, and other truck crop insects which have been injurious during the past year in tidewater Virginia.

